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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/721,166	11/26/2003	Shigenori Yoneda	117866	5527	
25944 7	7590 01/27/2005		EXAM	EXAMINER	
OLIFF & BERRIDGE, PLC			LE, DA	LE, DANG D	
P.O. BOX 199	28 A, VA 22320		ART UNIT	PAPER NUMBER	
	., 22526		2834	•	
			DATE MAILED: 01/27/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Commons	10/721,166	YONEDA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Dang D Le	2834				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence address -	•			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a within the statutory minimum of thin will apply and will expire SIX (6) MOI cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communica BANDONED (35 U.S.C. § 133).	tion.			
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ⊠ This						
3) Since this application is in condition for allowan		ters, prosecution as to the merits	is			
closed in accordance with the practice under E	·	•				
Disposition of Claims						
4) ☐ Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-22 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examiner	r.					
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the o		* *				
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example 11.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau 	s have been received. s have been received in A ity documents have been (PCT Rule 17.2(a)).	pplication No received in this National Stage				
* See the attached detailed Office action for a list of the certified copies not received.						
•						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/26/03 & 10/7/04.	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1-3, 5, 8, 11, 13-16 and 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stokes (5,570,503) in view of Puchy (2,278,139).

Regarding claims 1 and 16, Stokes shows a combination type stator core applicable to an electric rotary machine which is composed of a plurality of electromagnetic steel plates being multilayered so as to have a cylindrical yoke with numerous recessed portions (18) arranged at predetermined pitches in a circumferential direction and each opened toward an inner radial direction and a teeth block (26)

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extending toward the inner radial direction with protruding portions coupled or fitted into said recessed portions of said yoke (12).

Stokes does not show:

- One or more teeth fixing pins provided to fix said teeth block to said yoke;
- Said yoke comprising first annular plates defining said recessed portions
 being opened toward both axial directions as well as toward the inner radial
 direction and second annular plates being disposed next to said first annular
 plates at axial end thereof and each having a shielding plate portion for
 shielding said recessed portions of said first annular plates in a lamination
 direction of said multilayered electromagnetic steel plates;
- Said teeth block comprising first teeth defining said protruding portions
 inserted in the radial direction and fitted into said recessed portions and
 second teeth each being disposed next to said first teeth in the axial direction
 so as to be brought into hermetical contact with a cylindrical surface of said
 second annular plates; and
- Said teeth fixing pin inserted in through-holes of said shielding plate portions of said second annular plates and through-holes of said protruding portions of said second teeth which are overlapped with each other in the lamination direction.

For the purpose of pre-wire the coil, Puchy shows:

One or more teeth fixing pins (with through holes 20) provided to fix teeth block (11) to said yoke (10);

- Said yoke comprising first plates (14 bottom) defining said recessed portions (15) being opened toward both axial directions as well as toward the inner radial direction and second plates (14, top) being disposed next to said first annular plates at axial end thereof and each having a shielding plate portion at (16) for shielding said recessed portions of said first annular plates in a lamination direction of said multilayered electromagnetic steel plates;

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- Said teeth block (11) comprising first teeth (18) defining said protruding portions (19) inserted in the radial direction and fitted into said recessed portions and second teeth (17) each being disposed next to said first teeth in the axial direction so as to be brought into hermetical contact with a cylindrical surface of said second plates; and
- Said teeth fixing pin (25) inserted in through-holes (16) of said shielding plate portions of said second plates and through-holes (20) of said protruding portions of said second teeth which are overlapped with each other in the lamination direction.

Since Stokes and Puchy are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to make a stator core with tooth blocks and annular yoke having protruding portions and recessed portions, respectively for engaging the tooth blocks with the annular yoke in a radial direction as taught by Puchy for the purpose discussed above.

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Regarding claims 2, 8, 11, 13, and 20, it is noted that Stokes and Puchy also show all of the limitations of the claimed invention.

Regarding claim 3, neither Stokes nor Puchy shows a circumferential width of a radial end portion of said protruding portion is 98% or more of a circumferential width of a radial opening portion of said recessed portion. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to make a circumferential width of a radial end portion of said protruding portion with 98% or more of a circumferential width of a radial opening portion of said recessed portion, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Regarding claim 5, even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. In re Thorpe, 227 USPQ 964, 966 (Fed. Cir. 1985).

Regarding claims 14, 15, 21, and 22, neither Stokes nor Puchy shows the ratio with a range from 0.8 to 1.2 and a ratio Rx/Ry in the range from 1.0 to 1.5. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to make the ratio with the range 0.8 to 1.2 and the ratio Rx/Ry in the range from 1.0 to 1.5 for the purpose of connecting the teeth and the annular yoke, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

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4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Stokes in view of Puchy and further in view of Cushman.

Regarding claim 4, the core of Stokes modified by Puchy includes all of the limitations of the claimed invention except for the protruding portions with increasing distance and the recessed portions with decreasing distance.

Cushman shows such feature in Figure 5 and Figure 3, respectively for the purpose of making the assembly easier.

Since Stokes, Puchy, and Cushman are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to make the protruding portions with increasing distance and the recessed portions with decreasing distance as taught by Cushman for the purpose discussed above.

5. Claims 6, 7, 12, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stokes in view of Puchy and further in view of Ryder et al. (2,607,816).

Regarding claims 6 and 7, the core of Stokes modified by Puchy includes all of the limitations of the claimed invention except for the use of welding and offsetting the weld portions with the fixing pins in a radial direction.

Ryder et al. uses welding for the purpose of connecting the laminations together.

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Since Stokes, Puchy, and Ryder et al. are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to weld the tooth laminations and the annular laminations and to offset the weld portions with the fixing pins in the radial direction as taught by Ryder et al. for the purpose discussed above.

Regarding claims 12 and 19, it is noted that Ryder et al. also shows all of the limitations of the claimed invention in Figures 1 and 2.

6. Claims 9 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stokes in view of Puchy and further in view of Saban et al. (5,894,182).

Regarding claims 9 and 17, the core of Stokes modified by Puchy includes all of the limitations of the claimed invention except for the punch-out portions.

Saban et al. shows the punch-out portions for the purpose of locking the laminations.

Since Stokes, Puchy, and Saban et al. are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to include the punch-out portions in the laminations as taught by Saban et al. for the purpose discussed above.

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7. Claims 10 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stokes in view of Puchy and further in view of Cox (4,071,793).

Regarding claims 10 and 18, the core of Stokes modified by Puchy includes all of the limitations of the claimed invention except for the terminal base.

Cox shows the terminal base (58) for the purpose of providing a connection of coil ends.

Since Stokes, Puchy, and Cox are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to include the terminal base as taught by Cox for the purpose discussed above.

Information on How to Contact USPTO

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dang D Le whose telephone number is (571) 272-2027. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

1/21/05

DANG LE
DRIMARY EXAMINER